

EXHIBIT Y

**Groundwater Monitoring (Third Quarter 2000)
and Evaluation of Groundwater Conditions Report
Former Chromal Plating Company Site
Former Lawry's California Center
Los Angeles, California
Case File No. 95-094
CAO No. 99-037**

**September 22, 2000
6257.00-173**



85541

**Groundwater Monitoring (Third Quarter 2000)
and Evaluation of Groundwater Conditions Report
Former Chromal Plating Company Site
Former Lawry's California Center
Los Angeles, California
Case File No. 95-094
CAO No. 99-037**

**September 22, 2000
6257.00-173**

Prepared For
California Regional Water Quality Control Board
Los Angeles Region
320 West 4th Street, Suite 200
Los Angeles, California 90013



September 22, 2000

6257.00-173

Ms. Ana Veloz-Townsend
California Regional Water Quality Control Board
Los Angeles Region
320 West 4th Street, Suite 200
Los Angeles, California 90013

Subject: Groundwater Monitoring (Third Quarter 2000)
and Evaluation of Groundwater Conditions Report
Former Chromal Plating Company Site, Former Lawry's California Center,
528 San Fernando Road, Los Angeles, California
Case File No. 95-094; CAO No. 99-037

Dear Ms. Veloz-Townsend:

On behalf of the Qualified Settlement Fund, LFR Levine•Fricke (LFR) has prepared the enclosed Groundwater Monitoring (Third Quarter 2000) and Evaluation of Groundwater Conditions Report for the former Chromal Plating Company site at the former Lawry's California Center.

This report contains a summary of groundwater monitoring data for the third quarter of 2000 as well as an overall evaluation of groundwater conditions since the completion of soil remediation activities in August 1999. Four quarters of post-remedial groundwater monitoring have been conducted at the site in accordance with the California Regional Water Quality Control Board, Los Angeles Region (RWQCB), Cleanup and Abatement Order (CAO) Number 99-037, which states: "Implement a quarterly groundwater monitoring program for all wells located on the site. Groundwater samples shall be analyzed, at a minimum, for VOC's, total chromium, hexavalent chromium, sulfate, chloride, boron, pH, temperature, and TDS."

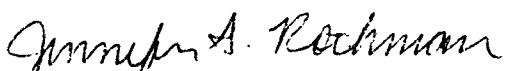
During the third quarter of 2000, an inspection of the asphalt cap covering the soil remediation area was performed. Results of the inspection indicate that the asphalt cap is in good condition.

The next round of groundwater monitoring (the fifth post-remedial groundwater monitoring event) will be performed during the fourth quarter of 2000. The next quarterly groundwater monitoring report will be submitted in January 2001.

Based on the results of the four post-remedial groundwater monitoring events (November 1999, February 2000, May 2000, and September 2000), we are requesting that the RWQCB approve a reduction in groundwater monitoring and reporting frequency from quarterly to semiannually, commencing with Year 2001. Under this schedule, groundwater monitoring would take place in December 2000, June 2001, and December 2001.

If you have any questions, please contact either of the undersigned at (714) 444-0111.

Sincerely,



Jennifer S. Rothman, P.E.
Senior Civil Engineer



Eileen T. Wintemute
Principal Engineer

Attachments

cc: Mr. Bruce H. Edelson, P.E. – Qualified Settlement Fund

CONTENTS

1.0	INTRODUCTION.....	1
2.0	GROUNDWATER MONITORING ACTIVITIES	1
2.1	Groundwater Elevation and Flow Direction	1
2.2	Groundwater Analytical Results	2
2.3	Evaluation of Groundwater Conditions	3
3.0	ASPHALT CAP	3

TABLES

- 1 Groundwater Elevation Measurements
- 2 Summary of Groundwater Analytical Data

FIGURES

- 1 Site Vicinity
- 2 Site Plan
- 3 Groundwater Conditions – September 2000
- 4 Total Chromium Concentrations in Groundwater Over Time

APPENDIX

- A Laboratory Report and Chain-of-Custody Documentation

1.0 INTRODUCTION

The former Lawry's California Center is located at 570 West Avenue 26, Los Angeles, California. The former Lawry's California Center comprised a 17-acre parcel that was at one time developed with a total of 17 buildings, including warehouses, general office facilities, former food processing facilities and restaurants, landscaped courtyards, and parking areas (Figures 1 and 2). The buildings have been demolished and a Home Depot store now occupies the property. The former Chromal site ("the Site") consists of a 4,500-square-foot former asphalt parking area located in the southern portion of the former Lawry's California Center property, at 528 San Fernando Road near Figueroa Avenue (Figure 2). Most of this area is now a portion of the parking lot for the Home Depot.

2.0 GROUNDWATER MONITORING ACTIVITIES

Groundwater monitoring for the Site was conducted on September 6, 2000. LFR personnel collected depth-to-groundwater measurements from ten Chromal site vicinity wells (LFCH-2 through LFCH-8, and LFCH-10abc). Monitoring well locations are shown on Figure 3.

Following collection of the depth-to-groundwater measurements, the monitoring wells were purged with submersible groundwater pumps and then sampled using disposable bailers. An equipment blank sample and duplicate sample were collected for quality control purposes. Groundwater samples were submitted to Severn Trent Laboratories (formerly Core Laboratories) of Santa Ana, California, for the following analyses: total dissolved chromium and hexavalent chromium by EPA Methods 6010B and 7196; volatile organic compounds (VOCs) by EPA Method 8260; boron by EPA Method 6010B; total dissolved solids (TDS) by SM 2540; and chloride and sulfate by SM 4500.

2.1 Groundwater Elevation and Flow Direction

Groundwater elevations were calculated from the depth-to-groundwater measurements recorded for the ten-groundwater monitoring wells at the Chromal site. Current and historical groundwater elevation data are presented in Table 1. Groundwater elevations increased by 0.01 to 0.09 foot compared to the May/June 2000 measurements, with the exception of the groundwater elevation in LFCH-6, which decreased 0.03 foot. Groundwater elevation contours are shown in Figure 3. The horizontal groundwater flow direction beneath the Chromal site vicinity is to the south-southwest at a gradient of approximately 0.002 ft/ft.

2.2 Groundwater Analytical Results

Current and historical groundwater quality data are presented in Table 2. Total and hexavalent chromium were not detected above the laboratory detection limits of 0.05 milligrams per liter (mg/l) for total chromium and 0.02 mg/l for hexavalent chromium in wells LFCH-2, LFCH-4, LFCH-5, LFCH-6, LFCH-7, LFCH-8, LFCH-10a, LFCH-10b, and LFCH-10c. The concentration of total and hexavalent chromium in well LFCH-3 did not change significantly from last quarter. The concentration of hexavalent chromium decreased in well LFCH-10a from 0.021 mg/l in June 2000 to non detect in September 2000. Total chromium concentrations over time are depicted in graphical form on Figure 4. As shown on Figure 4, the extent of chromium-affected groundwater has significantly reduced from pre-soil remediation groundwater concentrations measured in June 1999.

The concentrations of halogenated VOCs identified in Chromal site vicinity wells have decreased, or are similar to previous groundwater monitoring results. As described in previous reports, the lack of an on-site source and the decreasing concentrations of these VOCs indicate that an active remediation for VOCs in groundwater is not warranted.

The Chromal site lies between the San Fernando Basin and the Central Basin of the Los Angeles Coastal Plain. According to Table 3-10 of the June 13, 1994 Water Quality Control Plan, Los Angeles Region, the water quality objectives for selected constituents in groundwater in this region are as follows:

- TDS: 700 mg/l
- sulfate: 250 mg/l
- chloride: 150 mg/l
- boron: 1.0 mg/l

TDS concentrations exceeded 700 mg/l in all of the wells with the exception of LFCH-10c, and ranged from 429 mg/l to 1,660 mg/l. Sulfate concentrations were above 250 mg/l in wells LFCH-4, LFCH-5, and LFCH-8. Sulfate concentrations ranged from 56.5 mg/l to 452 mg/l. Chloride concentrations were above 150 mg/l in monitoring wells LFCH-2, LFCH-4, LFCH-5, LFCH-6, LFCH-8, and LFCH-10b. Chloride concentrations were less than the U.S. EPA's secondary drinking water standard of 250 mg/l in all the wells with the exception of LFCH-4. Chloride concentrations ranged from 39.9 mg/l to 252 mg/l. Boron concentrations were below 1.0 mg/l in all the wells sampled with the exception of LFCH-4, LFCH-5, LFCH-6, and LFCH-8. Boron concentrations ranged from 0.42 mg/l to 2.3 mg/l.

2.3 Evaluation of Groundwater Conditions

A groundwater-monitoring program is currently in place to confirm that the existing groundwater plume continues to decrease in size and concentration. The extent of chromium-affected groundwater has significantly reduced from pre-soil remediation groundwater concentrations measured in June 1999. Four quarters of post-remedial groundwater monitoring have been completed (November 1999, February 2000, May 2000, and September 2000). Analytical results from post-remedial groundwater sampling indicate a significant reduction in both total and hexavalent chromium concentrations in groundwater (Table 2). A graphical depiction of the decreasing groundwater plume is shown in Figure 4.

Based on the results of the four post-remedial groundwater monitoring events (November 1999, February 2000, May 2000, and September 2000), we are requesting that the RWQCB approve a reduction in groundwater monitoring and reporting frequency from quarterly to semiannually, commencing with Year 2001. Under this schedule, groundwater monitoring would take place in December 2000, June 2001, and December 2001. If groundwater analytical results from the 2001 sampling events support the continued reduction of hexavalent and total chromium concentrations, site closure for groundwater will be requested.

3.0 ASPHALT CAP

Following the completion of soil remediation activities, an asphalt cap was placed over the treated soil area as described in LFR's November 23, 1999 "Soil Remediation Report." An inspection of the asphalt cap was performed on September 6, 2000. Results of the inspection indicate that the asphalt cap is in good condition.

Table 1
Groundwater Elevation Measurements
Former Chromal Plating Site Vicinity
Former Lawry's California Center
LFR 6257.00

Well Location ID	Date Measured	Top-of-Casing Elevation (feet MSL)	Depth to Groundwater (feet BTC)	Groundwater Elevation (feet MSL)	Relative Change in Groundwater Elevation (feet REL)
LFCH-1	06/02/93	334.23	39.44	294.79	-
	03/16/94		40.89	293.34	-1.45
	04/14/94		41.02	293.21	-0.13
	01/06/95		41.27	292.96	-0.25
	06/06/95		40.09	294.14	1.18
	12/28/95		40.78	293.45	-0.69
	04/11/96		40.80	293.43	-0.02
	05/20/96		40.67	293.56	0.13
	10/07/96		40.85	293.38	-0.18
	12/30/96		40.97	293.26	-0.12
	06/24/97		40.65	293.58	0.32
	08/20/97		40.84	293.39	-0.19
	02/10/98		40.55	293.68	0.29
	07/30/98		39.35	294.88	1.20
	01/28/99		40.22	294.01	-0.87
LFCH-2	03/16/94	334.33	41.17	293.16	-
	04/14/94		41.28	293.05	-0.11
	01/06/95		41.53	292.80	-0.25
	06/06/95		40.36	293.97	1.17
	12/28/95		41.04	293.29	-0.68
	04/11/96		41.05	293.28	-0.01
	05/20/96		40.93	293.40	0.12
	10/07/96		41.10	293.23	-0.17
	12/30/96		41.22	293.11	-0.12
	06/24/97		40.91	293.42	0.31
	08/20/97		41.10	293.23	-0.19
	02/10/98		40.80	293.53	0.30
	07/30/98		39.65	294.68	1.15
	01/28/99		40.50	293.83	-0.85
	06/03/99		40.75	293.58	-0.25
	11/03/99		41.17	293.16	-0.42
	02/11/00		41.44	292.89	-0.27
	05/18/00		41.31	293.02	0.13
	09/06/00		41.31	293.02	0.00
LFCH-3	03/16/94	334.73	41.86	292.87	-
	04/14/94		41.97	292.76	-0.11
	01/06/95		42.16	292.57	-0.19
	06/06/95		41.07	293.66	1.09
	12/28/95		41.73	293.00	-0.66
	04/11/96		41.75	292.98	-0.02
	05/20/96		41.61	293.12	0.14
	10/07/96		41.47	293.26	0.14
	12/30/96		41.88	292.85	-0.41
	06/24/97		41.58	293.15	0.30
	08/20/97		41.77	292.96	-0.19
	02/10/98		41.48	293.25	0.29
	07/30/98		40.40	294.33	1.08
	01/28/99		41.25	293.48	-0.85
	06/03/99		41.52	293.21	-0.27
	11/03/99		41.85	292.88	-0.33
	02/11/00		42.08	292.65	-0.23
	05/18/00		41.97	292.76	0.11
	09/06/00		41.95	292.78	0.02

Table 1
Groundwater Elevation Measurements
Former Chromal Plating Site Vicinity
Former Lawry's California Center
LFR 6257.00

Well Location ID	Date Measured	Top-of-Casing Elevation (feet MSL)	Depth to Groundwater (feet BTC)	Groundwater Elevation (feet MSL)	Relative Change in Groundwater Elevation (feet REL)
LFCH-4	06/06/95	333.60	39.83	293.77	-
	12/28/95		40.47	293.13	-0.64
	04/11/96		40.51	293.09	-0.04
	05/20/96		40.37	293.23	0.14
	10/07/96		40.54	293.06	-0.17
	12/30/96		40.64	292.96	-0.10
	06/24/97		40.35	293.25	0.29
	08/20/97		40.53	293.07	-0.18
	02/10/98		40.24	293.36	0.29
	07/30/98		39.15	294.45	1.09
	01/28/99		40.00	293.60	-0.85
	06/03/99		40.27	293.33	-0.27
	11/03/99		40.62	292.98	-0.35
	02/11/00		40.85	292.75	-0.23
	05/18/00		40.75	292.85	0.10
	09/06/00		40.72	292.88	0.03
LFCH-5	06/06/95	331.22	37.31	293.91	-
	12/28/95		37.97	293.25	-0.66
	04/11/96		37.80	293.42	0.17
	05/20/96		37.84	293.38	-0.04
	10/07/96		38.02	293.20	-0.18
	12/30/96		38.12	293.10	-0.10
	06/24/97		37.84	293.38	0.28
	08/20/97		38.00	293.22	-0.16
	02/10/98		37.68	293.54	0.32
	07/30/98		36.65	294.57	1.03
	01/28/99		37.45	293.77	-0.80
	06/03/99		37.75	293.47	-0.30
	11/03/99		38.10	293.12	-0.35
	02/11/00		38.32	292.90	-0.22
	05/18/00		38.21	293.01	0.11
	09/06/00		38.20	293.02	0.01
LFCH-6	06/06/95	334.88	40.60	294.28	-
	12/28/95		40.43	294.45	0.17
	04/11/96		40.45	294.43	-0.02
	05/20/96		40.32	294.56	0.13
	10/07/96		40.52	294.36	-0.20
	12/30/96		40.64	294.24	-0.12
	06/24/97		40.32	294.56	0.32
	08/20/97		41.37	293.51	-1.05
	02/10/98		41.10	293.78	0.27
	07/30/98		39.87	295.01	1.23
	01/28/99		40.80	294.08	-0.93
	06/03/99		41.10	293.78	-0.30
	02/11/00	335.42	42.28	293.14	-0.64
	05/18/00		42.11	293.31	0.17
	09/06/00		42.14	293.28	-0.03
	10/05/95		44.95	293.28	-
LFCH-7	12/28/95		45.38	292.85	-0.43
	04/11/96		45.40	292.83	-0.02
	05/20/96		45.25	292.98	0.15
	10/08/96		45.41	292.82	-0.16
	12/30/96		45.52	292.71	-0.11
	06/24/97		45.23	293.00	0.29

Table 1
Groundwater Elevation Measurements
Former Chromal Plating Site Vicinity
Former Lawry's California Center
LFR 6257.00

Well Location ID	Date Measured	Top-of-Casing Elevation (feet MSL)	Depth to Groundwater (feet BTC)	Groundwater Elevation (feet MSL)	Relative Change in Groundwater Elevation (feet REL)
LFCH-7 (continued)	08/20/97		45.41	292.82	-0.18
	02/10/98		45.07	293.16	0.34
	07/30/98		44.05	294.18	1.02
	01/28/99		44.88	293.35	-0.83
	06/03/99		45.15	293.08	-0.27
	11/03/99		45.50	292.73	-0.35
	02/11/00		45.52	292.71	-0.02
	05/18/00		45.60	292.63	-0.08
	09/06/00		45.58	292.65	0.02
LFCH-8	10/05/95	329.74	36.55	293.19	-
	12/28/95		36.94	292.80	-0.39
	04/11/96		36.96	292.78	-0.02
	05/20/96		36.81	292.93	0.15
	10/07/96		36.90	292.84	-0.09
	12/30/96		37.02	292.72	-0.12
	06/24/97		36.73	293.01	0.29
	08/20/97		37.90	291.84	-1.17
	02/10/98		36.55	293.19	1.35
	07/30/98		35.80	293.94	0.75
	01/28/99		36.45	293.29	-0.65
	06/03/99		36.61	293.13	-0.16
	11/03/99		36.92	292.82	-0.31
	02/11/00		37.05	292.69	-0.13
	05/18/00		36.99	292.75	0.06
	09/06/00		36.90	292.84	0.09
LFCH-9	08/20/97	334.38	41.04	293.34	-
	02/10/98		40.74	293.64	0.30
	07/30/98		39.55	294.83	1.19
	01/28/99		40.02	294.36	-0.47
LFCH-10A	08/20/97	333.40	40.08	293.32	-
	02/10/98		39.91	293.49	0.17
	07/30/98		38.42	294.98	1.49
	01/28/99		39.30	294.10	-0.88
	06/03/99		39.60	293.80	-0.30
	11/03/99		39.98	293.42	-0.38
	02/11/00		40.24	293.16	-0.26
	05/18/00		40.11	293.29	0.13
	09/06/00		40.07	293.33	0.04

NOTES:

Survey of top-of-well casing elevations provided by Calvada Surveying,
and performed by a California Licensed Land Surveyor.

REL - Relative Elevation

MSL - Mean Sea Level

BTC - Below Top of Casing

QA/QC: *JRC*

Table 2:
Summary of Groundwater Analytical Data

Former Chromal Plating Site Vicinity
Former Lawry's California Center
LFR 6257.00

All values reported in milligrams per liter (mg/l)

Well Number	Relative Locations	Date Sampled	Chromium		Detected Volatile Organic Compounds by EPA Method 8240/8260												TDS	Chloride	Sulfate	Boron
			Total	Hexavalent	PCE	TCE	DCFM	TCM	Benzene	Toluene	Ethylbenzene	Total Xylenes	Naph	Alkylbenzenes	Other VOCs					
LFCH-1	Chromal Site	06/02/93	11.	12.	0.033	0.002	0.02	<0.002	<0.002	<0.002	<0.002	<0.004	<0.002	ND	--	NA	NA	NA	NA	
		03/16/94	35.	34.	0.023	0.0042	0.011	<0.002	<0.002	<0.002	<0.002	<0.004	<0.002	ND	--	NA	NA	NA	NA	
		06/06/95	25.	27.	0.013	0.0038	0.0024	<0.002	<0.002	<0.002	<0.002	<0.004	<0.002	ND	--	NA	NA	NA	NA	
		12/28/95	20.	1.8 *	0.019	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	NA	NA	--	NA	NA	NA	NA	
		04/12/96	8.9	9.9	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	0.240	ND	--	NA	NA	NA	NA	
		05/21/96	11.	10.	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	--	NA	NA	NA	NA	
		10/08/96	7.1	7.1	0.014	0.003	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003	<0.001	ND	--	NA	NA	NA	NA	
		12/30/96	10.	10.	0.01	0.0036	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003	<0.001	ND	--	NA	NA	NA	NA	
		06/25/97	6.8	6.8	<0.001	0.0018	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003	<0.001	ND	--	NA	NA	NA	NA	
		08/20/97	6.6	6.4	0.0098	0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003	<0.001	ND	--	NA	NA	NA	NA	
		02/11/98	2.3	1.7	0.008	0.0053	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003	<0.001	ND	--	NA	NA	NA	NA	
		07/30/98	13.	12.	0.014	<0.001	<0.001	0.0017	<0.001	<0.001	<0.001	<0.003	<0.001	ND	--	NA	NA	NA	NA	
		01/28/99	4.17	4.56	0.018	<0.001	<0.002	0.0011	<0.001	<0.001	<0.001	<0.003	<0.001	ND	--	NA	NA	NA	NA	
LFCH-2	Crossgradient	03/16/94	0.0096	<0.02	0.024	<0.002	<0.002	<0.002	0.0045	<0.002	<0.004	<0.002	ND	--	NA	NA	NA	NA		
		06/06/95	<0.01	<0.01	0.017	<0.002	<0.002	<0.002	<0.002	<0.002	<0.004	<0.002	ND	--	NA	NA	NA	NA		
		12/28/95	0.02	<0.01	0.026	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	NA	NA	--	NA	NA	NA	NA	
		04/11/96	<0.050	<0.01	0.038	0.002	<0.001	<0.001	<0.001	0.009	<0.001	<0.003	<0.001	ND	--	NA	NA	NA	NA	
		05/20/96	<0.050	<0.01	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	--	NA	NA	NA	NA	
		10/08/96	<0.050	<0.01	0.023	0.003	<0.001	<0.001	0.002	0.0024	<0.001	<0.003	<0.001	ND	--	NA	NA	NA	NA	
		12/30/96	<0.050	<0.01	0.02	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003	<0.001	ND	--	NA	NA	NA	NA	NA	
		06/24/97	<0.050	<0.01	0.005	0.0063	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003	<0.001	ND	--	NA	NA	NA	NA	
		08/20/97	<0.050	<0.01	0.018	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003	<0.001	ND	--	NA	NA	NA	NA	
		02/11/98	<0.050	0.01	0.014	0.0014	<0.001	0.0016	<0.001	<0.001	<0.001	<0.003	<0.001	ND	--	NA	NA	NA	NA	
		07/30/98	<0.050	<0.01	0.018	0.0018	<0.001	0.0018	<0.001	<0.001	<0.001	<0.003	<0.001	ND	--	NA	NA	NA	NA	
		01/28/99	<0.050	0.02	0.028	<0.001	<0.002	0.0014	<0.001	<0.001	<0.001	<0.003	<0.001	ND	--	NA	NA	NA	NA	
		06/03/99	<0.050	<0.01	0.0174	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.003	<0.002	ND	--	972	111	198**	<0.05	
		11/03/99	<0.050	<0.01	0.0107	<0.001	<0.002	<0.001	<0.001	<0.001	<0.003	<0.002	ND	--	918	138	257	0.656		
		02/11/00	<0.050	<0.01	0.00856	<0.001	<0.002	<0.001	<0.001	<0.001	<0.003	<0.002	ND	--	962	141	226	0.643		
		05/18/00	<0.050	<0.01	0.0095	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	ND	--	1030	142	240	0.72		
		09/06/00	<0.050	<0.02	0.0066	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	ND	--	1030	171	233	0.89		
LFCH-3	Downgradient	03/16/94	1.3	1.4	0.029	<0.002	0.013	<0.002	0.0048	0.039	0.055	0.182	0.02	0.0623	--	NA	NA	NA	NA	
		06/06/95	0.76	0.82	0.017	0.0027	0.0081	<0.005	0.0033	0.023	0.089	0.129	0.022	0.0624	--	NA	NA	NA	NA	
		12/28/95	1.4	0.02*	0.015	<0.005	NA	NA	0.008	0.055	0.18	0.32	NA	--	NA	NA	NA	NA	NA	
		04/12/96	0.97	0.88	0.018	<0.005	<0.005	<0.005	0.006	0.096	0.1	0.235	0.038	0.068	--	NA	NA	NA	NA	
		05/21/96	0.94	0.89	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	--	NA	NA	NA	NA	
		10/07/96	0.94	0.89	0.014	<0.005	<0.005	<0.005	<0.005	0.034	0.1	0.175	0.024	0.0454	--	NA	NA			

Table 2:
Summary of Groundwater Analytical Data
Former Chromal Plating Site Vicinity
Former Lawry's California Center
LFR 6257.00

All values reported in milligrams per liter (mg/l)

Well Number	Relative Locations	Date Sampled	Chromium		Detected Volatile Organic Compounds by EPA Method 8240/8260												TDS	Chloride	Sulfate	Boron
			Total	Hexavalent	PCE	TCE	DCFM	TCM	Benzene	Toluene	Ethylbenzene	Total Xylenes	Naph	Alkylbenzenes	Other VOCs					
LFCH-4 (continued)	Downgradient	12/31/96	<0.050	<0.01	0.0037	0.0059	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003	<0.001	ND	--	NA	NA	NA	NA	
		06/25/97	<0.050	<0.01	0.0073	0.014	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003	<0.001	ND	--	NA	NA	NA	NA	
		08/22/97	0.14	0.05	0.004	0.0064	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003	0.0035	ND	--	NA	NA	NA	NA	
		02/11/98	<0.050	<0.01	0.0062	0.011	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003	<0.001	ND	--	NA	NA	NA	NA	
		07/30/98	0.14	<0.01*	0.0076	0.0038	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003	<0.001	ND	--	NA	NA	NA	NA	
		01/29/99	0.404	0.41	0.01	0.0034	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003	<0.001	ND	--	NA	NA	NA	NA	
		06/03/99	0.152	0.09	0.00583	0.00505	<0.002	<0.001	<0.001	<0.001	<0.001	<0.003	<0.002	ND	--	1170	209	178**	<0.05	
		11/03/99	<0.050	0.01	0.00479	0.00621	<0.002	<0.001	<0.001	<0.001	<0.001	<0.003	<0.002	ND	--	1260	235	292	1.45	
		02/11/00	<0.050	0.02	0.00321	0.00558	<0.002	<0.001	<0.001	<0.001	<0.001	<0.003	<0.002	ND	--	1440	234	270	1.64	
		05/18/00	<0.050	<0.01	0.0027	0.0039	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	ND	--	1540	219	293	2.1	
		09/06/00	<0.050	<0.02	0.003	0.0044	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	ND	--	1530	240	249	2.	
		(Duplicate)	09/06/00	<0.050	<0.02	0.0032	0.0047	<0.002	<0.001	<0.001	<0.001	<0.001	0.0014	ND	--	1560	252	265	2.	
LFCH-5	Downgradient	06/06/95	<0.01	<0.01	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.004	<0.002	ND	--	NA	NA	NA	NA	
		12/28/95	0.055	<0.01*	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	NA	NA	--	NA	NA	NA	NA	NA	
		04/11/96	<0.050	<0.01	<0.001	<0.001	<0.001	<0.001	0.003	0.011	<0.001	<0.003	0.008	ND	--	NA	NA	NA	NA	
		05/20/96	<0.050	<0.01	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	--	NA	NA	NA	NA	
		10/07/96	<0.050	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003	<0.001	ND	--	NA	NA	NA	NA	
		12/31/96	<0.050	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003	<0.001	ND	--	NA	NA	NA	NA	
		06/25/97	<0.050	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003	<0.001	ND	--	NA	NA	NA	NA	
		08/22/97	<0.050	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003	<0.001	ND	--	NA	NA	NA	NA	
		02/11/98	<0.050	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003	<0.001	ND	--	NA	NA	NA	NA	
		07/30/98	<0.050	<0.01	0.0018	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003	<0.001	ND	--	NA	NA	NA	NA	
		01/29/99	<0.050	<0.01	0.0013	0.0026	<0.002	<0.001	<0.001	<0.001	<0.001	<0.003	<0.001	ND	--	NA	NA	NA	NA	
		06/03/99	<0.050	<0.01	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.003	<0.002	ND	--	1560	216	239**	<0.05	
		11/03/99	<0.050	<0.01	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.003	<0.002	ND	--	1640	227	381	2.15	
		02/11/00	<0.050	0.01	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.003	<0.002	ND	--	1670	217	359	2.23	
		05/18/00	<0.050	<0.01	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	ND	--	1690	197	450	2.4	
		(Duplicate)	05/18/00	<0.050	<0.01	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	ND	--	1690	192	439	2.4	
		09/06/00	<0.050	<0.02	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	ND	--	1630	213	452	2.3	
LFCH-6	Upgradient	06/06/95	<0.01	<0.01	0.0073	0.0038	<0.002	<0.002	<0.002	<0.002	<0.002	<0.004	<0.002	ND	--	NA	NA	NA	NA	
		12/28/95	0.008	<0.01	0.007	<0.005	NA	<0.005	<0.005	<0.005	<0.005	NA	NA	--	NA	NA	NA	NA	NA	
		04/11/96	<0.050	<0.01	0.007	0.011	<0.001	<0.001	<0.001	0.004	<0.001	<0.003	<0.001	ND	--	NA	NA	NA	NA	
		05/20/96	<0.050	<0.01	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	--	NA	NA	NA	NA	
		10/07/96	<0.050	<0.01	0.005	0.0071	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003	<0.001	ND	--	NA	NA			

LETTER OF TRANSMITTAL

BRUCE H. EDELSON, P. E. **RONALD A. SMITH**

28520 MEADOWMIST DR.
RANCHO PALOS VERDES, CA 90275
310-544-7007 (PHONE) 310-544-8098 (FAX)

SEP 28 2000

RECEIVED

DATE:	September 23, 2000	PROJ. NO.
-------	--------------------	-----------

ATTN:

TO: **RUTH ADELMAN – LIPTON COMPANIES**
GEORGE GHEBRANIOUS – CALTRANS

RE: FORMER LAWRY'S CALIF CENTER
CHROMAL SITE

WE ARE SENDING YOU THE FOLLOWING ITEMS:

- | | | | |
|---|--|---------------------------------------|-----------------------------------|
| <input type="checkbox"/> COPY OF LETTER | <input type="checkbox"/> INVOICE | <input type="checkbox"/> PLANS/PRINTS | <input type="checkbox"/> CONTRACT |
| <input type="checkbox"/> CHANGE ORDER | <input type="checkbox"/> SPECIFICATION | | |
| <input checked="" type="checkbox"/> OTHER | QUARTERLY REPORT | | |

COPIES	DATE	NO.	DESCRIPTION
1	9/22	6257.00-173	Groundwater Monitoring (Third Quarter 2000) and Evaluation of GW Conditions Report prepared by Levine*Fricke

REASON FOR TRANSMITTAL CHECKED BELOW:

- | | | | |
|--|--|-----------------------------------|--------------------------------|
| <input type="checkbox"/> FOR APPROVAL | <input type="checkbox"/> APPROVED AS SUBMITTED | <input type="checkbox"/> RESUBMIT | COPIES FOR APPROVAL |
| <input checked="" type="checkbox"/> FOR YOUR USE | <input type="checkbox"/> RETURNED FOR CORRECTIONS | <input type="checkbox"/> RETURN | SIGNED COPIES FOR DISTRIBUTION |
| <input checked="" type="checkbox"/> AS REQUESTED | <input type="checkbox"/> FOR REVIEW AND COMMENT | <input type="checkbox"/> | |
| <input type="checkbox"/> APPROVED AS NOTED | <input type="checkbox"/> APPROVED, RECOMMEND PAYMENT | | |

REMARKS:

The attached report is forwarded for your information

Copy To: Bruce Smiley, F. F & S
Lisa Braum - CalTrans
Don Smith - Conopco

Signed _____

Original Signed by
BRUCE H. EDELSON, P.E.

Bruce H. Edelson, P.E;

Table 2:
Summary of Groundwater Analytical Data

Former Chromal Plating Site Vicinity
Former Lawry's California Center
LFR 6257.00

All values reported in milligrams per liter (mg/l)

Well Number	Relative Locations	Date Sampled	Chromium		Detected Volatile Organic Compounds by EPA Method 8240/8260											TDS	Chloride	Sulfate	Boron
			Total	Hexavalent	PCE	TCE	DCFM	TCM	Benzene	Toluene	Ethylbenzene	Total Xylenes	Naph	Alkylbenzenes	Other VOCs				
LFCH-7 (continued)	Downgradient	07/31/98	<0.050	<0.01	<0.025	<0.025	<0.025	<0.025	0.5	0.026	<0.025	<0.075	0.25	0.351	--	NA	NA	NA	NA
		01/29/99	<0.050	<0.01	<0.010	<0.010	<0.020	<0.010	0.414	<0.010	<0.010	<0.003	<0.010	0.2675	--	NA	NA	NA	NA
		06/03/99	<0.050	<0.01	<0.020	<0.020	<0.040	<0.020	0.331	<0.020	<0.020	<0.060	0.0412	0.2152	1,1,2 TCA: 0.0206	756	82.2	81.5**	<0.05
		11/03/99	<0.050	<0.01	<0.010	<0.010	<0.020	<0.010	0.265	<0.010	<0.010	<0.003	0.152	0.2619	--	856	82.6	96.0	0.375
		02/11/00	<0.050	0.02	<0.00625	<0.00625	<0.0125	<0.00625	0.188	<0.00625	<0.00625	<0.01875	0.0236	0.17518	--	794	80.6	100.	0.389
		05/18/00	<0.050	<0.01	<0.002	0.0024	<0.004	<0.002	0.150	<0.002	<0.002	<0.002	0.035	0.1306	cis-1,2-DCE: 0.0033	812	66.2	72.7	0.41
		09/06/00	<0.050	<0.02	<0.0025	<0.005	<0.0025	<0.005	0.190	<0.0025	<0.0025	<0.0027	0.07	0.209	cis-1,2-DCE: 0.0029	787	69.6	58.0	0.42
LFCH-8	Downgradient	10/05/95	0.066	<0.01	<0.002	0.0020	<0.002	<0.002	0.0033	<0.002	<0.0060	<0.0060	<0.002	ND	--	NA	NA	NA	NA
		12/29/95	<0.050	0.03	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	NA	NA	--	NA	NA	NA	NA	
		04/11/96	<0.050	<0.01	<0.001	0.002	<0.001	<0.001	0.054	<0.001	<0.001	<0.003	<0.001	ND	--	NA	NA	NA	NA
		05/20/96	<0.050	<0.01	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	--	NA	NA	NA	NA
		10/07/96	<0.050	<0.01	<0.001	0.0018	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003	<0.001	ND	--	NA	NA	NA	NA
		12/30/96	<0.050	<0.01	<0.001	<0.001	<0.001	<0.001	0.0031	<0.001	<0.0027	0.0066	<0.001	0.0083	--	NA	NA	NA	NA
		06/25/97	<0.050	<0.01	0.0016	0.0016	<0.001	<0.001	<0.001	<0.001	<0.003	<0.001	<0.001	ND	--	NA	NA	NA	NA
		08/21/97	<0.050	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003	<0.001	<0.001	ND	--	NA	NA	NA	NA
		02/11/98	<0.050	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003	<0.001	<0.001	ND	--	NA	NA	NA	NA
		07/31/98	<0.050	0.02	0.0019	0.0029	<0.001	0.0013	<0.001	<0.001	<0.003	<0.001	<0.001	ND	--	NA	NA	NA	NA
		01/28/99	<0.050	0.04	0.0025	0.0025	<0.002	<0.001	<0.001	<0.001	<0.003	<0.001	<0.001	ND	--	NA	NA	NA	NA
		06/03/99	<0.050	<0.01	0.00135	0.0023	<0.002	<0.001	<0.001	<0.001	<0.003	<0.001	<0.002	ND	--	1560	277	252**	<0.05
		11/03/99	<0.050	<0.01	0.00175	0.00234	<0.002	<0.001	<0.001	<0.001	<0.003	<0.001	<0.002	ND	--	1520	229	322	1.88
		02/11/00	<0.050	<0.01	0.00124	0.00188	<0.002	<0.001	<0.001	<0.001	<0.003	<0.001	<0.002	ND	--	1510	219	309	1.75
		05/18/00	<0.050	<0.01	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	ND	--	1640	212	374	2.2
		09/06/00	<0.050	<0.02	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	ND	--	1660	228	395	2.1
LFCH-9	Chromal Site	08/20/97	<0.050	<0.01	0.0067	0.0017	<0.001	<0.001	<0.001	<0.001	<0.003	<0.001	<0.001	ND	--	NA	NA	NA	NA
		02/10/98	0.35	<0.01	0.011	0.0023	<0.001	0.0013	<0.001	<0.001	<0.003	<0.001	<0.001	ND	--	NA	NA	NA	NA
		07/30/98	0.66	1.1	0.015	<0.001	<0.001	0.0018	<0.001	<0.001	<0.003	<0.001	<0.001	ND	--	NA	NA	NA	NA
		01/28/99	0.211	0.23	0.017	<0.001	<0.002	<0.001	<0.001	<0.001	<0.003	<0.001	<0.001	ND	--	NA	NA	NA	NA
LFCH-10A	Chromal Site	08/21/97	9.6	9.2	0.0068	0.0012	<0.001	<0.001	<0.001	<0.001	<0.003	<0.001	<0.001	ND	--	NA	NA	NA	NA
		02/10/98	12.	8.5	0.011	0.0032	<0.001	0.0013	<0.001	<0.001	<0.003	<0.001	<0.001	ND	--	NA	NA	NA	NA
		02/10/98	11.	9.9	0.012	0.0034	<0.001	0.0014	<0.001	<0.001	<0.003	<0.001	<0.001	ND	--	NA	NA	NA	NA
		07/30/98	6.1	5.0	0.015	<0.001	<0.001	0.0016	<0.001	<0.001	<0.003	<0.001	<0.001	ND	--	NA	NA	NA	NA
		07/30/98	6.2	5.3	0.014	<0.001	<0.001	0.0015	<0.001	<0.001	<0.003	<0.001	<0.001	ND	--	NA	NA	NA	NA
		01/28/99	9.62	7.16	0.0123	<0.001	<0.002	0.0011	<0.001	<0.001	<0.003	<0.001	<0.001	ND	--	NA	NA	NA	NA
		01/28/99	11.9	7.05	0.0133	<0.001													

Table 2:
Summary of Groundwater Analytical Data

Former Chromal Plating Site Vicinity
Former Lawry's California Center
LFR 6257.00

All values reported in milligrams per liter (mg/l)

Well Number	Relative Locations	Date Sampled	Detected Volatile Organic Compounds by EPA Method 8240/8260												TDS	Chloride	Sulfate	Boron	
			Total	Hexavalent	PCE	TCE	DCFM	TCM	Benzene	Toluene	Ethylbenzene	Total Xylenes	Naph	Alkylbenzenes	Other VOCs				
LFCH-10C (continued)	Chromal Site (Duplicate)	06/03/99	<0.050	<0.01	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.003	<0.002	ND	--	1280	333	53.5**	0.633
		11/03/99	<0.050	<0.01	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.003	<0.002	ND	--	1170	287	78.0	1.27
		11/03/99	<0.050	<0.01	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.003	<0.002	ND	--	1210	307	86.0	1.71
		02/11/00	<0.050	0.01	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.003	<0.002	ND	--	1330	343	108.	1.88
		5/18/00 & 6/15/00	<0.050	<0.01	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	ND	--	214	9.4	52.1	<0.20
		09/06/00	<0.050	<0.02	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	ND	--	429	39.9	56.5	0.43
MCLs			0.05	0.05	0.005	0.005	NE	0.1	0.001	0.15	0.7	1.75	NE	NE	1,1,2 TCA 0.005 cis-1,2-DCE, 0.005 Styrene, 0.1	500***	250***	250***	NE

Notes:

NE = Not Established

ND = Not Detected above individual detection limits

NA = Not Analyzed

< = Designates less than the laboratory detection limit.

MCLs = Maximum Contaminant Level or Primary Drinking Water Standard for the State of California.

* = Discrepancy in Total Chromium versus Hexavalent Chromium attributable to laboratory procedures.

** = Sulfate was detected in the equipment blank at a concentration of 118 mg/L.

*** = Secondary Drinking Water Standard for State of California or EPA.

Chemical Abbreviations:

PCE = Tetrachloroethene

TCE = Trichloroethene

DCFM = Dichlorodifluoromethane

TCM = Trichloromethane (Chloroform)

Naph = Naphthalene

TDS = Total Dissolved Solids

TCA = Trichloroethane

Alkylbenzenes:

n-Butylbenzene

sec-Butylbenzene

1,2,4-Trimethylbenzene

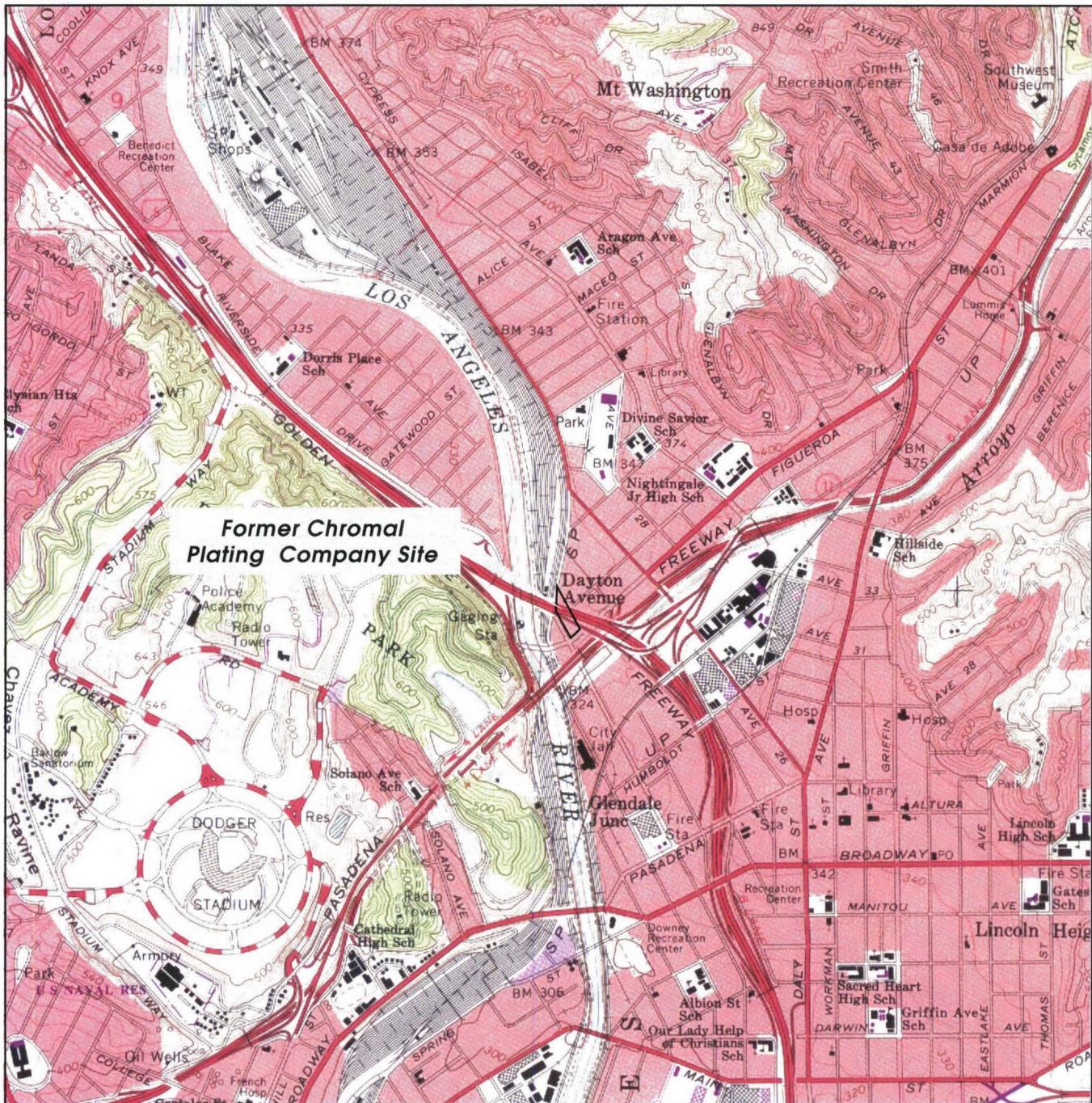
1,3,5-Trimethylbenzene

Isopropylbenzene

n-Propylbenzene

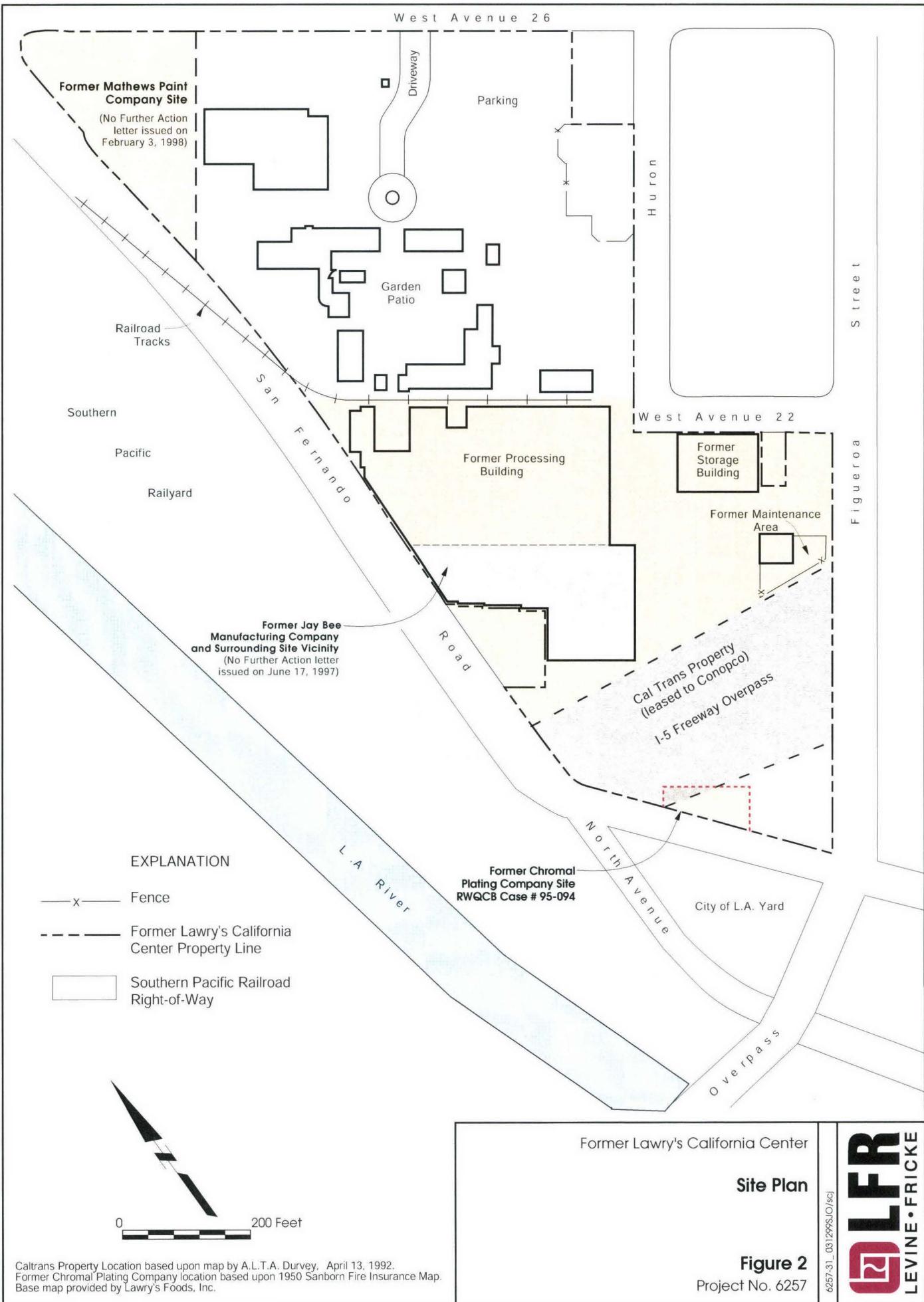
QA/QC: TF-

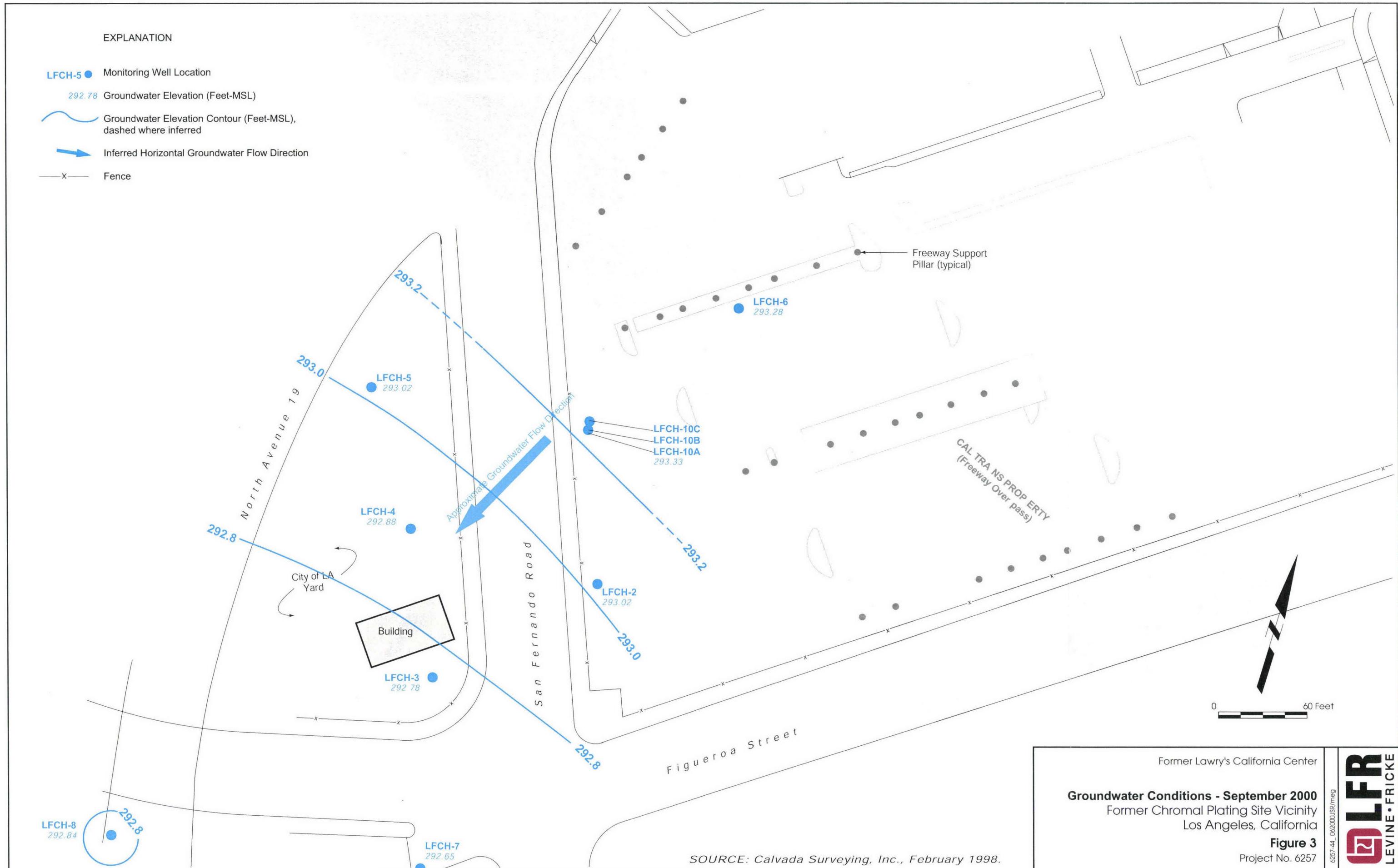
FIGURES



MAP SOURCE: U.S.G.S Topographic Map, 7.5' Quadrangle, Los Angeles, California, 1981.

0 1,000 2,000 4,000 feet





Former Lawry's California Center

Groundwater Conditions - September 2000
Former Chromal Plating Site Vicinity
Los Angeles, California

Figure 3
Project No. 6257

EXPLANATION

LFCH-5 ● Monitoring Well Location

LFCH-4	
6/3/99	0.152
11/3/99	<0.050
2/11/00	<0.050
5/18/00	<0.050
9/6/00	<0.050

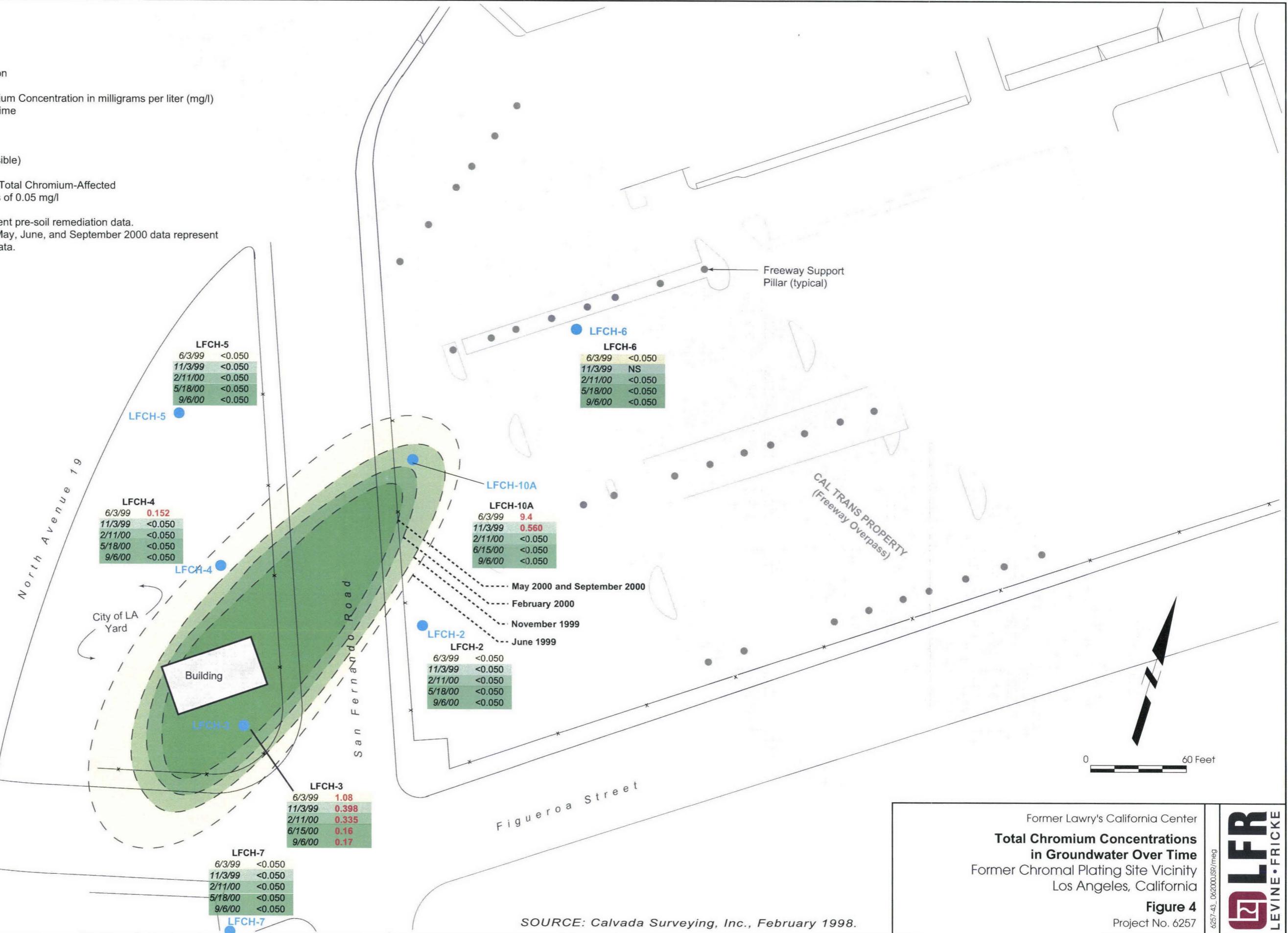
Total Dissolved Chromium Concentration in milligrams per liter (mg/l) in Groundwater Over Time

Fendt

NS Not Sampled (Inaccessible)

Approximate Extent of Total Chromium-Affected Groundwater in Excess of 0.05 mg/l

NOTE: June 1999 data represent pre-soil remediation data.
November, February, May, June, and September 2000 data represent post-soil remediation data.



Former Lawry's California Center

Total Chromium Concentrations in Groundwater Over Time

Former Chromal Plating Site Vicinity Los Angeles, California

Figure 4
ect No. 6257

